

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-228824

(43)Date of publication of application : 16.08.1994

(51)Int.Cl. D01F 9/12
B01D 61/14
C01B 31/02
C30B 33/00

(21)Application number : 05-014387

(71)Applicant : NEC CORP

(22)Date of filing : 01.02.1993

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(54) METHOD FOR PURIFYING CARBON-NANOTUBE

(57)Abstract:

PURPOSE: To obtain a carbon.nanotube having a uniform molecular weight and size by dispersing a crude product containing the carbon.nanotube in a liquid with ultrasonic waves, passing the resultant dispersion through a chromatographic column and separating the carbon.nanotube.

CONSTITUTION: A crude product containing a carbon.nanotube is dispersed in a liquid with ultrasonic waves. When a surfactant is added, the dispersion state is improved and preferred for preventing the condensation. The dispersion is further passed through a chromatographic column to separate carbonaceous substances other than the nanotube and nanoparticles. Thereby, the carbon.nanotube is separated by a difference in developing speed in the column. The nanotube uniform in regard to electric conductivity can be obtained by electrostatic separation.

LEGAL STATUS

[Date of request for examination] 01.02.1993

[Date of sending the examiner's decision of rejection] 03.10.1995

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2522469 ↵

[Date of registration] 31.05.1996

[Number of appeal against examiner's decision of rejection] 07-23832

[Date of requesting appeal against examiner's decision of rejection] 02.11.1995

[Date of extinction of right]

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